

Name \_\_\_\_\_

Period \_\_\_\_\_ Date \_\_\_\_\_

## Homework 5.1.5

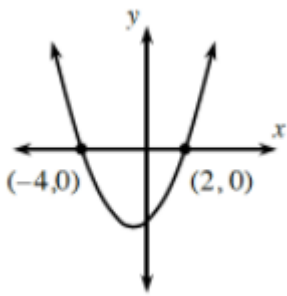
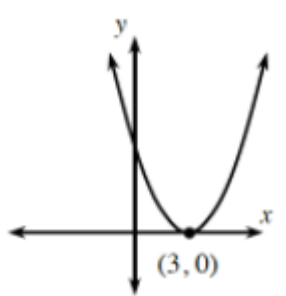
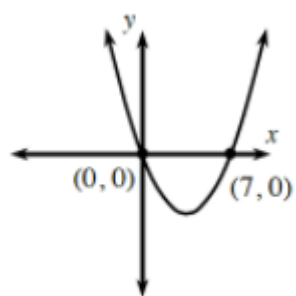
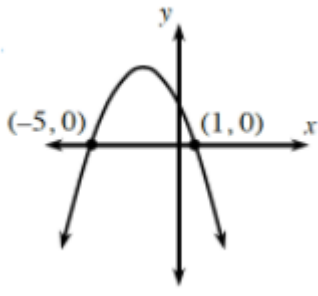
1. What values of  $x$  will make the following equations true?

a) $(x - 5)^2 = 9$	b) $(x - 5)^2 - 9 = 0$	c) $(x - 5)^2 = -9$
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2) Calculate the value of each expression below. (use a calculator)

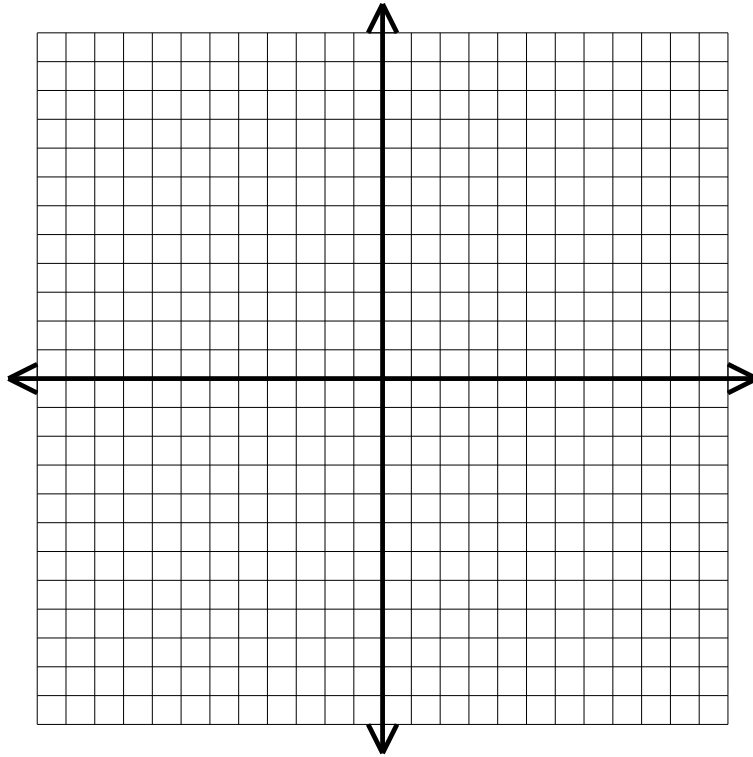
a) $3 - \sqrt{36}$	b) $1 + \sqrt{42}$	c) $-5 - \sqrt{6}$
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3) Determine a possible equation for each of the following:

<p>a.</p>  <p>Equation: _____</p>	<p>b.</p>  <p>Equation: _____</p>
<p>c.</p>  <p>Equation: _____</p>	<p>d.</p>  <p>Equation: _____</p>

4) Graph  $y = x^2 - 2x - 8$  and fully describe it using all of the terms used in our lessons

x	y



Description (domain, range, min/max, .....etc.)

5) On the graph below:

a) Graph the line:  $y = 4x - 1$

b) Graph a new line that passes through point  $(0, 2)$  and has a slope of 1.  
What is the Equation for that line in slope intercept form.

Equation: \_\_\_\_\_

c) What is the intersection of these lines?

